### BLAGONRAVOV, A.A.

"Some Problems of Providing for Scientific Research on Rockets."

report presented at the 14th Annual Meeting of American Rocket Society, Wash, D.C. 16-20 Nov 59.

RAYEVSKIY, Nikolay Petrovich, kand.tekhn.nauk; ARTOBOLEVSKIY, I.I., akademik, otv.red.; BIAGONRAVOY, A.A., akademik, red.; BRUYEVICH, N.G., akademik, red.; DIKUSHIN, V.I., akademik, red.; SERENSEN, S.V., akademik, red.; PINEGIN, S.V., prof., doktor tekhn.nauk, red.; LEVITSKIY, N.I., prof., doktor tekhn.nauk, red.; KOBRIN—SKIY, A.Ye., doktor tekhn.nauk, red.; BESSONOV, A.P., kand.tekhn.nauk, red.; BELYANIN, P.N., red.izd-va; ASTAF'YEVA, G.A., tekhn.

[Indicators of mechanical parameters of machines] Datchiki mekhanicheskikh parametrov mashin. Moskva, Izd-vo Akad.nauk SSSR, 1959. 186 p. (MIRA 13:1)

1. AN USSR (for Serensen).
(Measuring instruments) (Machinery--Testing)

E BOOK METALDHATON SOT/1693	Twelenay (Introdute Paths of the 12d-vo "Frants," 1959, 63 p. 11)  As "Kossomal'skey preved," no. 11)  Tren. Ed.: L. Novikova.  Tren. Ed.: L. Novikova.	accomplishments in space in with accomplishments in space in with the stille are entitly to space science and intes, space pockets, in prities, engineering ersonalities are mentioned.	(Association). A Flight into the Feture 30 Defect of Technical Sciences]. The 22 the Moon 22	The Astrantic Becommit-		ronics - the Brains of Space 37 Electric Power Station in Space 84		Facts and Mathematics, Norker Concealchedly institute inent Marker Comet Thoton Rosket - Space Ship of 53		VI: 18: 1 (Ba) (Win SII Aber) (Was made made and			
MANUEL FRANK	Hethorhentymi tropani Yealemny (Untrodden Patha of the Universe) Mesow, ind-vo "Frands," 1959. 63 p. [Sarles an Niloteka "Rosemal'skoy pravdy," no. 11) [11,000 copies princh "A.; i. Koylkova. Ed.; V. Enkushich; Tech. Ed.; I. Koylkova.	General reador.  COTEMAGE: The boolest conteins it articles dealing with exploration. The boolest and accomplishments in space exploration. Though popular in 1749, the articles are written by leading Soriet scientists in the field. The contributions of K. W. THOLINYSHIP to space actendance briefly presented. Satellites, space recient future space order, and certain partinest engineering problems are discussed. No personalities are sentioned No personalities are sentioned.	RENEWLY, A. b. (bedweeten). A Flight into the F. [Vancibelio] T. [Dottor of Technical Sciences]. Bottor the Moon	Derongwol, V. V. [Professor]. The Agical terms of Space II. BINING AND THE PARE PARE	Solovanov, Ys. (Entineer). fran	Marging 1. Medio Mestronics - the Brains of Mockets Milenkin, D. [Engineer]. Mestric fower Statio	-	andidate of Figurations of Physics of Physics of State of Parks of Physics of	Pokelis, V. Mare, a Mear Planet	•			
William Company						•						,	

KHRUSHCHOV, Mikhail Mikhaylovich; BERKOVICH, Yefim Solomonovich; BLAGO-MRAYOV, A.A., skademik, otv.red.; RZHEZNIKOV, V.S., red.izd-va; POLENOVA, T.P., tekhn.red.

[Determining wear in machine parts by the artificial indentation method] Opredelenie iznosa detalei mashin metodom iskusstvennykh bas. Moskva, Izd-vo Akad.nauk SSSR, 1959. 217 p. (MIRA 12:4) (Mechanical wear)

DIMENTBERG, Fedor Menas'yevich, doktor tekhn.nauk; SERENSEN, S.V., akademik, otv.red.; ARTOBOLEVSKIY, I.I., akademik, otv.red.; BLAGONRAYOV, A.A., akademik; red.; BRUYEVICH, N.G., akademik; red.; DIKUSHIN, V.I., akademik, red.; PINEGIN, S.V., prof., doktor tekhn.nauk, red.; LEVITSKIY, N.I., prof., doktor tekhn.nauk, red.; KOBRINSKIY, A.Ye., doktor tekhn.nauk, red.; RAYEVSKIY, N.P., kand.tekhn.nauk, red.; BESSONOV, A.P., kand.tekhn.nauk, red.; MELEYEV, A.S., red.izd-va; KUZ'MIN, H.K., tekhn.red.; MAKUNI, Ye.V., tekhn.red.

[Bending vibrations of revolving shafts] Isgibnye kolebaniia vrashchaiushchikhsia valov. Moskva, Isd-vo Akad.nauk SSSR, 1959. 246 p.

1. Akademiya nauk USSR (for Serensen).
(Vibration) (Shafting)

ARTOBOLEVSKIY, Ivan Ivanovich, akademik; LEVITSKIY, N.I., prof., doktor tekhn.nauk, otv.red.; BLAGONRAYOY. A.A., akademik, red.; BRUYEVICH, N.G., akademik, red.; DIKUSHIN, V.I., akademik, red.; SERENSEN, S.V., akademik, red.; PINEGIN, S.V., prof., doktor tekhn.nauk; red.; DINENTBERG, P.M., doktor tekhn.nauk, red.; KOBRINSKIY, A.Ye., doktor tekhn.nauk, red.; RAYEVSKIY, N.P., kand.tekhn.nauk, red.; BESSONOY, A.P., kand.tekhn.nauk, red.; PERLYA, Z.N., red.izd-va [deceased]

[Theory of mechanisms for reproduction of flat curves] Teoriia mekhanizmov dlia vosproisvedeniia ploskikh krivykh. Moskva. Isd-vo Akad.nauk SSSR, 1959. 253 p. (MIRA 12:8)

1. AN USSR (for Serensen).
(Drawing instruments)

TSIOLKOVSKIY, Konstantin Eduardovich; VOROB'YEV, B.N., inzh., red.-sostavitel' toma; BLAGOMRAVOV, A.A., akademik, otv.red.; SEMENOV, V.A., doktor tekhn.nauk, prof., saslushennyy deyatel' nauki i tekhniki.BSFSR, nauchnyy red. toma; RAPOPOHT, Ya.A., red.izd-va; PRUSAKOVA, T.A., tekhn.red.

[Collected works] Sobranie sochinenii. Vol.3. [Dirigibles]
Dirishabli. Moskva, Izd-vo Akad.nauk SSSR. 1959. 316 p.
(Airships) (MIRA 12:4)

BLAGONRAVOV, A. A.

CHERKUDINOV, Sergey Aleksandrovich; ARTOBOLEVSKIY, I.I., skademik, otv.red.; BLAGOMRAVOV, A.A., skademik, otv.red.; BRUYEVICH, N.G., skademik, red.; DIKUSHIN, V.I., skademik, red.; SERKNSKN, S.V., akademik, red.; PINEGIN, S.V., prof., doktor tekhn.nsuk, red.; LEVITSKIY, N.I., prof., doktor tekhn.nsuk, red.; DI-MENTBERG, F.M., doktor tekhn.nsuk, red.; KOBRINSKIY, A.Ye., doktor tekhn.nsuk, red.; RAYEVSKIY, N.P., kand.tekhn.nsuk, red.; BESSONOV, A.P., kand.tekhn.nsuk, red.; KUDASHEV, A.I., red.; Ed-izd-va; ASTAF YEVA, G.A., tekhn.red.

[Synthesis of flat hinged-lever mechanisms; problems on the reproduction of a continuous function on a given section]
Sintes ploskikh sharnirno-rychazhnykh mekhanizmov; zadachi o vosproizvedenii nepreryvnoi funktsii na zadannom otrezke.
Moskva, Izd-vo Akad.nauk SSSR, 1959. 321 p. (MIRA 13:1)

1. AN USSR (for Serensen).
(Machinery, Kinematics of)

sov/180-59-1-1/29

Nesmeyanov, A.N., Topchiyev, A.V. and Blagonravov, A.A. AUTHORS:

To Academician Lev Dmitriyevich Shevyakov (Akademiku TITLE:

L'vu Dmitriyevichu Shevyakovu)

PERIODICAL: Izvestiya Akademii Nauk SSSR. Otdeleniye tekhnicheskikh nauk, Metallurgiya i toplivo, 1959, Nr 1, p 3 (USSR)

ABSTRACT: The authors, on behalf of the Prezidium Akademii nauk SSSR (Presidium of the Academy of Sciences of the USSR)

and the Otdeleniye tekhnicheskikh nauk AN SSSR (Technical-sciences section, AS USSR), congratulate Shevyakov on his 70th birthday and outline his work.

They mention the rewards and honours he has received. Card 1/1

ASSOCIATION: Academy of Sciences of the USSR

KONSTANTINOV, B.P.; DEBORIN, A.M., akademik; PEYVE, Ya.V.; IOFFE, A.F., akademik; MIKHAYLOV, A.I., prof.; SATPAYEV, K.I., akademik; ZHUKOV, Ye.M., akademik; LAVRENT'YEV, M.A., akademik; SEMENOV, N.N., akademik; PAVLOVSKIY, Ye.N., akademik; MINTS, I.I., akademik; SISAKYAN, N.M.; ROMASHKIN, P.S.; FEDOROV, Ye.K.; STECHKIN, B.S., akademik; MAYSKIY, I.M., akademik; PAVLOV, Todor, akademik; ARBUZOV, A.Ye., akademik; VASIL'YEV, N.V., doktor skon.nauk; HELOUSOV, V.V.; MITIN, M.B., akademik; BLAGONRAVOV, A.A., akademik; KANTOROVICH, L.V.; RYBAKOV, B.A., akademik; NEMCHINOV, V.S., akademik; Discussion of the address. Vest. AN SSSR 29 no.4:34-63 Ap '59. (MIRA 12:5)

1. Chlen-korrespondent AN SSSR (for Konstantinov, Peyve, Sisakyan, Romashkin, Fedorov, Belousov, Kantorovich).

BLAGONRAVOV, A. A. Adademician Secretary Dept. Tech. Sci., AS USSR

"Control Over Means of Delivery."

paper presented at the Pugwash Conference on Disarmament and World Security, Moscow, 27 Nov-6 Dec 60.

# BLAGONRAVOV, A. A.

"Proposal for Special Surveillance Force, T.C. Schelling On the Control of Means for the Delivery of Weapons of Mass Annihilation."

report submitted for the 6th Pugwash Conference on Disarmament & World Security, Moscow 27 Nov-5 Dec 1960.

GERTS, Yelena Vasil'yevna; KREYNIN, German Vladimirovich; ARTOBOLEVSKIY,
I.I., akademik, otv.red.; BLAGONHAVOV, A.A., akademik, red.;
BHUYEVICH, N.G., akademik, red.; DIKUSHIN, V.I., akademik, red.;
SKRENSKN, S.V., akademik, red.; PINEGIN, S.V., doktor tekhn.nauk,
red.; LEVITSKIY, N.I., prof., doktor tekhn.nauk, red.; DIMENTEERG,
F.M., doktor tekhn.nauk, red.; KOBRINSKIY, A.Ye., doktor tekhn.
nauk, red.; RAYEVSKIY, P.P., kand.tekhn.nauk, red.; BESSONOV, A.P.,
kand.tekhn.nauk, red.; GORSHKOV, G.B., red.izd-ve; MAKOGONOVA,
I.A., tekhn.red.

[Theory and design of pneumatic power devices] Teoriia i raschet silovykh pnevmaticheskikh ustroistv. Moskva, Izd-vo Akad.nauk SSSR, 1960. 177 p. (MIRA 14:2)

1. AN USSR (for Serensen).
(Pneumatic machinery)

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BLAGON RAVOV, A.A.

## PHASE I BOOK EXPLOITATION

SOV/5053

- Vsesoyuznaya konferentsiya po treniyu i iznosu v mashinakh. 3d, 1958.
- Iznos i iznosostoykost'. Antifriktsionnyye materialy (Wear and
  Wear Resistance. Antifriction Materials) Moscow, Izd-vo AN
  SSSR, 1960. 273 p. Errata slip inserted. 3,500 copies printed.
  (Series: Its: Trudy, v. 1)
- Sponsoring Agency: Akademiya nauk SSSR. Institut mashinovedeniya. Resp. Ed.: M. M. Khrushchov, Professor; Eds. of Publishing House: M. Ya. Klebanov, and S. L. Orpik; Tech. Ed.: T. V. Polyakova.
- -PURPOSE: This collection of articles is intended for practicing engineers and research scientists.
- COVERAGE: The collection, published by the Institut mashinovedeniya,
   AN SSSR (Institute of Science of Machines, Academy of Sciences
   USSR) contains papers presented at the III Vsesoyuznaya Konferentsiya po treniyu i iznosu v mashinakh (Third All-Union

Card 1/13

Wear and Wear Resistance (Cont.)

SOV/5053

Conference on Friction and Wear in Machines) which was held April 9-15, 1958. Problems discussed were in 5 main areas:

1) Hydrodynamic Theory of Lubrication and Friction Bearings (Chairmen: Ye. M. Gut'yar, Doctor of Technical Sciences, and A. K. D'yachkov, Doctor of Technical Sciences); 2) Lubrication and Lubricant Materials (Chairman: G. V. Vinogradov, Doctor of Chemical Sciences); 3) Dry and Boundary Friction (Chairmen: B. V. Deryagin, Corresponding Member of the Academy of Sciences USSR, and I. V. Kragel'skiy, Doctor of Technical Sciences); 4) Wear and Wear Resistance (Chairman: M. M. Krushchov, Doctor of Technical Sciences); and 5) Friction and Antifriction Materials (Chairmen: I. V. Kragel'skiy, Doctor of Technical Sciences, and M. M. Krushchov, Doctor of Technical Sciences). Chairman of the general assembly (on the first and last day of the conference) was Academician A. A. Blagonravov. L. Yu. Pruzhanskiy, Candidate of Technical Sciences, was scientific secretary. The transactions of the conference were published in 3 volumes, of which the present volume is the first. This volume contains articles concerning the wear and

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Wear and Wear Resistance (Cont.)

SOV/5053

wear resistance of antifriction materials. Among the topics covered are: modern developments in the theory and experimental science of wear resistance of materials, specific data on the wear resistance of various combinations of materials, methods for increasing the wear resistance of certain materials, the effects of friction and wear on the structure of materials, the mechanism of the seizing of metals, the effect of various types of lubricating materials on seizing, abrasive wear of a wide variety of materials and components under many different conditions, modern developments in antifriction materials, and the effects of finish machining on wear resistance. Many personalities are mentioned in the text. References accompany most of the articles.

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Introductory Word, Blagonravov, A. A., Academician

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PHASE I BOOK EXPLOITATION SOV/5291	Sovenichaniye po kompleksnoy mckhanizatsii i avtomatizatsii tekhno- logicheskikh protpessov v mashinostroyenii. 2d, Moscow, 1956	Avtomatizatsiya mashinostroitelinykh protsessov. t. III: Obrabotka rezaniyes i obshchiye voprosy avtomatizatsii (Automation of Machine-Building Processes v. 3: Metal Outting and General Automation Problems) Noscow, Izd-vo AH SSSR, 1960. 296 p. (Series: Itali Trudy, I. 3) 4,700 copies printed.	Sponsoring Agency: Akademiya nauk SSSR. Institut mashinovedeniya Komissiya po tekhnologii mashinostroyeniya.	Resp. Ed.: W. I. Dikushin, Academician; Ed. of Publishing House: W. A. Kotow; Tech. Ed.: I. P. Kuz'min.	FURFOSE: This collection of articles is intended for technical parsonnel concerned with the automation of the machine industry	COVERABE: This is Volume III of the transactions of the Second Conference on the Full Mechanization and Automation of Manufacturing Processes in the Machine Industry, held September 25-29,	1956. The transactions have been published in three volumes. Volume I deals with the hot pressworking or metals, and volume I. with the actuation and control of machines. The present volume deals with the automation of metal archining and work-volume deals with the automation of metal archining and work-volume deals with the automation of metal archining and work-volume deals with the automation.	hardening, and with general produces encouraged.  tion. The framestions on the automation of metal-machining processes were published under the supervision of F. S. Demiyande and A. M. Karatygin, and those on the automation of work hardening processes, under the supervision of E. A. Satel' and N. O. Takobson. No personalities are mentioned. There are no	references. Expanser, Yu. B. On the Operation of the Tools in Automatic Production Lines	Indunizatly, D. G. Experience of the SKB-6 [Special Design Orlice No. 6] in Designing and Mastering Automatic Production-Line Operations	Yegorov B. V. Automation of Universal Metal-Cutting Machines for Mass Production	Neklyudov, G. I. Automatic Machining of Parts Used in Watchmaking	SOV/5291 SOV	Takobson, M. O. Automated Production of Gears and Splined	Shares Koshin, L. N. Automation of Manufacturing Processes Based on botary Transfer Machines	Ryvkin, G. M. Metal-Cutting Tools for Automated Production		Sokolov, Te. F. Experience in the Operation of Semiauto- matic Hydraulic Copying Machines	Vasiliyev, V. S. Automatic Balancing Machines	Kuritayna, A. D. Hew Advanced Processes for the Mass Production of Sliding Desrings	Card h/7
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AUTHOR:

Blangonravov, A., Academician

TITLE:

The Flight of Man Into Space is Not Far Away in the Future

PERIODICAL:

Nauka i zhizn', 1960, No. 6, p 7

TEXT: A.Blangonravov thinks that even the most perfect <u>automatic systems</u> cannot replace human brains in getting information from the outer world, and the flight of <u>man into space</u> is of extremely great importance for science. He states that the first question asked by press reporters abroad is regularly "When will the Soviet Union send a man into the Universe?". No precise time of such flight can be given yet but it is no longer far away. The guaranty for this is the progress in radio engineering, electronics, aerodynamics, computer engineering and metallurgy in the Soviet Union.

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8/030/60/000/007/002/011 B016/B058

3.2000

AUTHORS:

Blagonravov, A. A., Academician, Kroshkin, M. G.

TITLE:

Geophysical Research by Means of Rockets and Artificial

Satellites

Vestnik Akademii nauk SSSR, 1960, No. 7, pp. 7-20 PERIODICAL:

TEXT: The authors discern two trends in the development of geophysical and cosmic research: a) recording the data of the upper strata of the atmosphere, such as solar radiation, cosmic radiation, electric and magnetic fields, and b) preparing the cosmic flight of man Research by means of rockets and satellites complement each other. On the Soviet Delegate's proposal to the 5th Assembly of the Special Committee of the International Geophysical Year (Moscow, August, 1958), the activities of the International Geophysical Year were extended as International Geophysical Cooperation. Altogether 175 rockets have been launched by the Soviet Union. The following launching bases are mentioned: the Heiss Island (Franz Josef Land), mean latitudes of the USSR territory and an expedition vessel (launchings in the vicinity of the South Pole

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82695

Geophysical Research by Means of Rockets and Artificial Satellites

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Observatory Mirnyy, in equatorial latitudes, and in the North Pacific). 158 rockets investigated the meteorological conditions of the upper stratosphere, 17 rockets served for a comprehensive geophysical study of the atmosphere at altitudes of from 100 to 470 km. The measuring instruments used are tabulated. Nine rockets carrying experimental animals were launched. When studying micrometeors, not only the number of collisions was recorded, but also their energy, which has the order of 104 erg. The number of collisions fluctuates, owing to the inhomogeneity of meteor showers, between 1.7.10-3 and 9 collisions per m2 and sec. Three satellites were launched during the International Geophysical Year. Their high weight permitted comprehensive measurements of the pressure and composition of the atmosphere, study of corpuscular radiation, short-wave spectrum, and magnetic field, as well as biological experiments. The cosmic rockets launched to the moon are mentioned. Further international cooperation is to be ensured by the United Nations Committee on Space Research. Some satellites launched in the USA for both scientific and military purposes (such as Midas) endanger this cooperation. The following data of the atmosphere are mentioned: at a

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82695

Geophysical Research by Means of Rockets and Artificial Satellites

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height of 225 km: density =  $2.12.10^{-3}$  g/cm<sup>3</sup>, temperature  $936^{\circ}$ K; at a height of 300 km; density  $3.53.10^{-14}$  g/cm<sup>3</sup>, temperature 1048 K; at a height of 400 km; density  $6.6.10^{-15}$  g/cm<sup>3</sup>, temperature 1373°K; and at a height of 500 km: density 2.21.10<sup>-15</sup> g/om<sup>3</sup>, temperature 1953 K. Above 250 km, the atmosphere is of atomic composition, oxygen ions being predominant. The corona of the earth, a belt of cosmic radiation, was discovered in cooperation with USA scientists. The authors briefly outline such unsolved problems as the causes of the heating of the upper atmosphere, the structural inhomogeneity of the ionosphere, the formation of the F, layer, and the radiation balance of the earth. The results obtained so far are only a beginning. The realization of the cosmic flight of man and the exploration of other planets are no longer a fantasy. There is 1 table.

Card 3/3

KOZLOV, F.R.; KOSYGIN, A.N.; ZASYAD'KO, A.F.; NESMEYANOV, A.N.; ANTROPOV, P.Ya.; YELUTIN, V.P.; RUDAKOV, A.P.; KIRILLIN, V.A.; TOPCHIYEV, Aleksandr V.; BLAGONRAVOV, A.A.; SHEVYAKOV, L.D.; SHILIN, A?A?; MEL'NIKOV, H.V.; KRASNIKOVSKIY, G.V.; TOPCHIYEV, Aleksey V.; BOYKO, A.A.; BRATCHENKO, B.F.; GRAFOV, L.Ye.; KUZ'MICH, A.S.; KRATENKO, I.M.; MAN'KOVSKIY, G.I.; PLAKSIN, I.N.; AGOSHKOV, M.I. SPIVAKOVSKIY, A.O.; POCIENKOV, K.I.; KRASOZOV, I.P.; KOZHEVIN, G.V.; LINDENAU, N.I.; KUZNETSOV, K.K.

A.S.Skochinskii; obituary. Vest.AN SSSR 30 no.11:73-75 N 60. (MIRA 13:11) (Skochinskii, Aleksandr Aleksandrovich, 1874-1960.)

BLAGONRAVOV, A. A.

"International Scientific Collaboration"
report presented at the 10th Pugwash Conference, London, 2-7 Sep 61.

S/030/61/000/004/005/015 B105/B206

AUTHOR:

Blagonravov, A. A., Academician-Secretary, Academician (see

Association)

TITLE:

Department of Technical Sciences

PERIODICAL:

Vestnik Akademii nauk SSSR, no. 4, 1961, 45-50

TEXT: In his report on the activities of the institutions of the Otdeleniye tekhnicheskikh nauk (Department of Technical Sciences), Academician A. A. Blagonravov, Academician-Secretary, outlined the main trends of these activities. First of all he mentioned studies concerning the biggest possible increase of power supply of the country, opening of new and effective utilization of existing power sources. At the Energeticheskiy institut im. G. M. Krzhizhanovskogo (Institute of Power Engineering imeni G. M. Krzhizhanovskiy), heat exchange installations were developed which operate with much higher temperatures than those used so far. The problem of direct transformation of thermal energy into electric one with a considerable increase of the degree of efficiency was also dealt with. Fundamentally new and promising motors and installations are elaborated at the Laboratoriya

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Department of ...

dvigateley (Laboratory of Motor Building). Electric machine equipment is being perfected at the Institut elektromekhaniki (Institute of Electromechanics). The overall plan of the hermal power-economy of the Karel'skaya ASSR was elaborated and the technical-economic quality indices of various power-supply of the Tatarskaya ASSR and Chuvashskaya ASSR were determined. The Sovet po problemam vodnogo khozyaystva (Council of Problems of the Water Economy) drew up the balance for the water economy of the SSSR (USSR). The Institut goryuchikh iskopayemykh (Institute of Mineral Fuels) was engaged in increasing the utilization of all natural resources. The second important trend is the use of new materials, metals and alloys in industry, construction, and technology elaborated at the Institut metallurgii im. A. A. Baykova (Institute of Metallurgy imeni A. A. Baykov). The third important scientific trend comprises problems of radio engineering and electronics elaborated at the Institut radiotekhniki i elektroniki (Institute of Radio Engineering and Electronics). At the Institut avtomatiki i telemekhaniki (Institute of Automation and Telemechanics), a mathematical apparatus describing the position of optimum control systems of objects was elaborated according to the principle of the maximum by L. S. Pontryagin. Frequency systems of telemechanics are used on the

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S/030/61/000/004/005/015 B105/B206

Department of ...

petroleum fields of Bashkiriya, Tatariya, and Azerbaydzhan. The contactless magnetic logical elements for automatic control systems suggested by the Institute were introduced at the Minskiy zavod avtomaticheskikh liniy (Minsk Plant of Automatic Production Lines) and other plants. The Institut mashinovedeniya (Institute of Sciences of Mechanics) jointly with the Akusticheskiy institut (Acoustics Institute) elaborated principles of vibroacoustic calculation of a certain class of mechanism. A. A. Blagonravov finally stated that the level of studies by the scientific institutions of the Department has greatly risen, but an extension of the institutes and improvement of their equipment is necessary. The following delegates participated in the discussion: the Academicians A. A. Bochvar, M. P. Kostenko, A. A. Mikulin; N. A. Dollezhal', D. A. Zavalishin, A. P. Petrov, V. S. Smirnov, N. S. Streletskiy, and Z. F. Chukhanov, Corresponding Members AS USSR. A report was then delivered by Ye. Ya. Kazovskiy, Candidate of Technical Sciences and Academician M. P. Kostenko on "Modern methods of testing transients in electric ac. machines", which were conducted at the zavod "Elektrosila" ("Elektrosila" Plant) and the Institute of Electromechanics. Delegates from electric machine building plants participated in the discussion. The method proposed by Ye. Ya. Kazovskiy was considered to Card 3/4

#### CIA-RDP86-00513R000205420010-7 "APPROVED FOR RELEASE: 06/08/2000

Department of ...

**8/**030/61/000/004/005/015 B105/B206

be promising. It was decided to continue the studies.

ASSOCIATION: Otdeleniye tekhnicheskikh nauk (Department of Technical Sciences) [Abstracter's note: Name of association was taken from first page of journal.]

Card 4/4

PETROV, B.N.; SOTSKOV, B.S.; LARIONOV, A.N.; CHILIKIN, M.G.; SYROMYATNIKOV, I.A.; BLAGONRAVOV, A.A.; KRUZHILIN, G.H.; IVAKHNENKO, A.G.; NAGORSKIY, V.D.; CHELYUSTKIN, A.B.; DROZDOV, N.G.; PETROV, I.I.

Seventieth birthday of Viktor Sergeevich Kulebakin. Elektrichestvo no.10:90-91 0 '61. (MIRA 14:10) (Kulebakin, Viktor Sergeevich, 1891-)

SISAKYAN, N.M., akademik; MINTS, I.I., akademik; SATPAYEV, K.I.; akademik; FRUMKIN, A.N., akademik; SHEMYAKIN, M.M., akademik; SOBOLEV, S.L., akademik; SHULEYKIN, V.V., akademik; BITSADZE, A.V.; MEL'NIKOV, N.V.; KHOVSTOV, V.M.; ROMASHKIN, P.S.; ABDULLAYEV, Kh.M.; DADYKIN, V.P., doktor biol.nauk; OBOLENTSEV, R.D., doktor khim.nauk; PONOMAREV, B.N.; BLAGONRAVOV, A.A., akademik; ARTSIMOVICH, L.A., akademik; KOSTENKO, M.P., akademik; NALIVKIN, D.V., akademik

Discussion of the report. Vest.AN SSSR 31 no.3:27-47 Mr '61.

(MIRA 14:3)

1. AN Kazakhskoy SSSR (for Satpayev). 2. Chleny-korrespondenty
AN SSSR (for Bitsadze, Mel'nikov, Khvostov, Romashkin, Abdullayev,
Ponomarev).

(Research)

3.2100 17.0000 3212 23453 8/030/61/000/006/004/014 B1 01/B206

AUTHOR:

Blagonravov, A. A., Academician

TITLE:

Preparation of the flight of man into cosmic space

PERIODICAL: Akademiya nauk SSSR. Vestnik, no. 6, 1961, 19 - 30

TEXT: A survey is given of work required for realizing the flight by Yu. A. Gagarin on April 12, 1961. With the collaboration of Academician S. I. Vavilov a group of scientists and designers started to design rockets, with the aid of which a comprehensive geophysical research program was carried through. The rockets are called "academic" rockets (in contrast to meteorological ones). Already the first rockets were equipped for carrying animals. Conditioning of the atmosphere, recording of biological data, and problems of bringing back motion pictures and recorders are mentioned. In 1951, the first rocket carrying an animal was started to a height of 101 km. Later flights reached heights of from 200 to 475 km. The ultrasonic speed of rockets led to research in this field. The rocket size increased due to comprehensive programs. Recovery of animals

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Preparation of the flight of man ...

by means of the successive effect of parachutes or by catapulting at a height of 90 or 40 km was improved. The first satellite weighing 83.6 kg was started on October 4, 1957. The second weighing 508 kg carried the dog "Layka" and its telemetric system was perfect. The third satellite (1.5 t) started in May, 1958. Research results: Existence of two radiation belts, soft corpuscular currents, higher density of the upper atmosphere than expected, composition of the ionosphere, data on the magnetic field of the earth. On January 2, 1959, the start of the rocket to the moon, which became a satellite of the sun, and later, the start of the rocket which landed on the moon and of that which flew around it. The problem of orientation of rockets in space in order to take photographs, and of the control of various processes from the earth, is mentioned. 26 rockets started to a height from 100 to 470 km in 1957 - 1960, 16 of them carrying animals. 31 flights with animals have taken place since 1951. The meteorological rockets, 160 of which were started in 1960, are not included in these figures. Further development led to the start of still heavier satellites on May 15, in August and December 1960 (4.5 t). From the satellite started in August, 1960, the

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Preparation of the flight of man...

animals were recovered for the first time (the dogs "Belka"and"Strelka"). A satellite weighing 6 t was started on February 4, 1961, the rocket to the Venus (start from a satellite) on February 12, 1961. The radiation belt was investigated by scintillation and gas discharge counters with diurnal memory storage and three-electrode traps. In the outer radiation belt were found: 1 Mev electrons, causing bremsstrahlung at the rocket shell; at a height of 30,000 - 40,000 km, a constant spectrum of 130 kev electrons; between 50,000 and 75,000 km, a 200 ev electronic current (108 per cm2.sec). This third radiation belt was confirmed by American rockets. The intensity of the corpuscular currents emitted by the sun was studied. Composition of the atmosphere: below 1000 km, oxygen ions are prevalent, between 1000 and 2000 km hydrogen ions. The concentration of the hydrogen corona remains almost constant up to 15,000 km (1000 ions per cm3), increases between 15,000 and 20,000 km, and drops above 20,000 km to 100 ions per cm3. Positive ions of corpuscular radiation of the sun were found at 100,000 km height. The composition of primary cosmic radiation was investigated from the second and third satellite by means of photoemulsion, which was developed in the satellite after 10 hr exposure.

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Preparation of the flight of man ...

Control by means of correcting pulses is mentioned, as well as the calculation of their intensity by computers. In the "Vostok" satellite, one axis was oriented toward the sun. The signals of optical and gyroscopic pickups were transformed in an electronic block into pulses for the control organs. Deceleration during landing was done with the aid of the atmosphere, so that small braking pulses were sufficient. Protection against overheating was achieved by the shape of the cabin and by special heat-insulating material. Although the landing of rockets had been tested previously, catapulting of the pilot in a protective suit was preferred for safety reasons. The landing was made by parachute. The first flight by man was fully automatic. However, the pilot had the possibility of interfering with regard to orientation and temperature control (15 - 22°C). Protection against overload was carried out by means of a special seat; the overload acted in the direction chest-back. The atmosphere was conditioned by absorption of  ${\rm CO_2}$  and  ${\rm H_2O}$  and the separation of 02 from chemicals, regulated by means of pickups. Air humidity was regulated between 30 and 70%. The protective suit of the pilot was supplied with 02 from the parachute. The measurements of physiological

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Preparation of the flight of man...

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reactions were transmitted telemetrically to the earth by means of pickups. Still more pickups, storage devices and coding must be used in the future. Three electrocardiographic and one pneumographic recorders were used in the "Vostok". Communication between rocket and earth was made (1) by radiotelemetry; (2) by switching in on board during descent; (3) by a transmitter in the protective suit; (4) the radio system "signal" which continuously transmitted the cardiac contractions; (5) by television, and (6) radio telephone.

Card 5/5

BLAGONRAVOV, A.A., akademik

Symposium "Optical and radio observations of artificial satellites." Vest. AN SSSR 31 no.8:97-98 Ag '61.

(MIRA 14:8)

(Artificial satellites)

### BLAGONRAVOV, A. A.

"National Report of the USSR Academy of Sciences on the Investigations of Outer Space Carried out in the Soviet Union in 1961"

Soviet Papers Presented at Plenary meetings of Committee on Space Research (COSPAR) and Third International Space Science Symposium, Washington, D. C., 23 Apr - 9 May 62.

TSIOLKOVSKIY, Konstantin Eduardovich[deceased]; VOROB'YEV, B.N.; SOKOL'SKIY, V.N., kand. tekhn. nauk; BLAGONRAVOV, A.A., akademik; SOKOLOVA, S.A., red. izd-va; POLENOVA, T.P., tekhn. red.; MAKUNI, Ye.V., tekhn. red.

[Selected works] Izbrannye trudy. Red.-sost.B.N.Vorob'ev, V.N.Sokol'skii. Obshchaia red. A.A.Blagonravova. Moskva. Izd. vo Akad.neuk SSSR, 1962. 533 p. (MIRA 15:7)

1. Uchenyy sekretar' komissii po razrabotke nauchmogo naslediya K.E.TSiolkovskogo (for Vorob'yev).

(Spaceflight) (Aeronautics)

5/024/62/000/001/001/013 E194/E484

AUTHOR:

Blagonravov, A.A.

TITLE:

Problems of the Otdeleniya tekhnicheskikh nauk (Technical Sciences Division) arising out of the

22nd Congress of KPSS

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye

tekhnicheskikh nauk. Energetika i avtomatika, no.1,

1962, 3-15

The article reviews the main problems for the Technical TEXT: Sciences Division AS USSR that arise out of the Party Programme as presented at the 22nd Party Congress. Electrification occupies a central place in building a communist society and so the construction of steam and water power stations and of transmission systems is of the utmost importance. Unit sets of up to 1000 MW will be required and dc transmission lines at 2 MV. Much theoretical work will be required on the power fuel balance, on power system design and other named aspects of generation, In the development of distribution and utilization of power. fuel resources, particular attention will be paid to the Card 1/4

S/024/62/000/001/001/013 E194/E484

Problems of the ...

integrated utilization of petroleum and gas as well as solid fuel to meet the combined needs of the power and chemical industries. A unified transport system for the USSR needs to be developed with different types of transport fulfilling appropriate functions within the system. Railway electrification and dieselization must proceed apace. Extensive use of metal will continue for many years, new alloys must be developed and supplied in adequate quantity. Particular attention is being paid to the development of high strength materials. Methods of reducing production and labour costs are under consideration. In mining, new physical and electrical methods of mining minerals are required, accompanied by studies of mechanical and other properties of the ore bearing formations. New methods of ore enrichment and concentration are wanted to raise the iron content of the charge to 68% with a minimum amount of harmful impurities. Phase separation methods combined with chemical decomposition of individual phases is a most promising procedure for ore concentration. In electronics, extensive work is in hand on quantum-mechanical generators, on radio wave propagation under Card 2/4

S/024/62/000/001/001/013 E194/E484

Problems of the ...

terrestrial and cosmic conditions and on broad-band waveguide In furthering the automation of production communication lines. processes, integrated apparatus is being developed for the automatic synthesis of optimum control systems. Mechanics is an important theoretical basis for the consideration of many problems of engineering, aviation and space technology. An important current trend is the study of gas-hydrodynamics, including study of high-speed flow of high temperature gas and associated problems. High speed motion in liquids is to be studied. plasticity of strained solids requires study and evaluation. In the mechanics of the solid body it is particularly important to unite the efforts of metal-physicists and mechanic physicists to study internal processes which govern plastic strain and failure New problems are continually arising under various conditions. because of the development of new materials and new methods of Investigations of oscillations and the strength of structures subject to arbitrary forces is of importance, this working them. applies to flying bodies in a turbulent atmosphere. In structural mechanics it is important to develop and improve Card 3/4

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Problems of the ...

approximate methods of static calculations of complicated elastic structures, including thin envelopes and to extend these methods to problems of vibration, stability, wave propagation and flutter. Solution of all these problems will be of value, for instance, in development of supersonic aircraft using small airfields, in the development of fundamentally new types of engine and in using new forms of energy. It is typical of modern mechanics that it is closely allied to physics including quantum mechanics and this unification will extend.

Card 4/4

# BLAGONRAVOV, A.A., akademik

Mikhail Mikhailovich Khrushchov (on the occasion of his 70th birthday). Tren.i izn.mash. no.15:7-10 '62. (MIRA 15:4) (Khrushchov, Mikhail Mikhailovich, 1890)

BLAGONRAVOV, A., akademik

Life, mind, universe. Av.i kosm. 45 no.7:35-41 162.

(MIRA 15:8)

BLAGONRAVOV, A. A., akademik

Reliability of technical equipment. Av. 1 kesm. 45 no.9: (MIRA 15:10)

(Space flight)

BLAGONRAVOV, A., akademik

Cascade of disceveries. Av. i kosm. 45 no.9:81-82 '62. (MIRA 15:10)

(Outer space—Exploration)

### BLAGONRAVOV, A.A.

A study of the investigations of the Upper Atmosphere and the Outer Space made in the USSR in 1962

Report to be submitted for the 4th International Space Science Symposium (COSPAR) Warsaw, 2-12 June 63

TSIOKOVSKIY, Kondtantin Eduardovich; BLAGONRAVOV, A.A., akademik, otv. red.; VOROB'YEV, B.N., red.; PROKOF'YEVA, N.B., red. izd-va; YEGOROVA, N.F., tekhn. red.

[Rocket into outer space; investigation of outer space with jet-propelled devices] Raketa v kosmicheskoe prostranstvo; issledovanie mirovykh prostranstv reaktivnymi priborami. Moskva, Isd-vo AN SSSR, 1963. 110 p. (MIRA 16:6) (Outer space—Exploration) (Rockets (Aeronautics) (TSiolkovskii, Konstantin Eduardovich, 1857-1935)

# BLAGONRAVOV, ALA., akademik

Automatic control and space flight. Radio no.8:6-7 Ag '63. (MIRA 16:9)

1. Chlen prezidiuma AN SSSR.
(Space flight) (Astronautics)

L 18493-63 EWT(1)/FS(s)/FCC(w)/FS(v)-2/BDS/ES(v)/EEC-2 AFFTC/ESD-3/AFMDC/APGC/SSD Pe-4/Pi-4/Po-4/Pq-4 TT/AR/GW/K

ACCESSION NR: AP3007551 S/0030/63/000/009/0009/0016

AUTHOR: Blagonravov, A. A. (Academician)

96 86

TITLE: Recent achievements in space investigation. Investigations of space and upper layers of the atmosphere

SOURCE: AN SSSR. Vestnik, no. 9, 1963, 9-16

TOPIC TAGS: Mars 1, Luna 4, Kosmos satellite, geophysical rocket radar Mercury investigation, radar Venus investigation, radar Mars investigation, cosmic ray, radiation belt, electron flux, solar plasma flux, meteoritic flux, Taurid, Franz-Josef Land

ABSTRACT: Investigations carried out in 1962 by means of the interplanetary stations "Mars 1" and "Luna 4," 16 satellites of the "Kosmos" series, and 72 exploratory rockets are discussed, and the principal results of these investigations are given. "Mars 1" maintained two-way radar communication to a distance of 196 x 106 km. The distance from the earth to the maximum-intensity zone of the inner radiation belt was found to be greater than it had been in

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L 18493-63 ACCESSION NR: AP3007551

1958, and the intensity of cosmic radiation, nearly twice that of 1959. An increase in distance from the sun had no effect on this intensity during a period of minimum solar activity. The outer boundary of the radiation belt was found to run along the geomagnetic lines of force. Electron fluxes of energy greater than 80 ev had a density of  $2-4 \times 10^8 \text{ cm}^{-2} \cdot \text{sec}^{-1}$ , while the solar plasma fluxes of positive ions of energy up to 3200 ev were in the range 10<sup>9</sup> cm<sup>-2</sup>/sec<sup>-1</sup>-3 x 10<sup>7</sup> cm<sup>-2</sup>·sec<sup>-1</sup>. The impact made by Taurid meteoritic particles of mass greater than 10<sup>-7</sup> g at altitudes of 6600-42,000 km was measured on a 1.5-m<sup>2</sup> surface and was found to be  $7 \times 10^{-3}$  m<sup>-2</sup>·sec<sup>-1</sup>. Another hitherto unknown meteoritic flux was found at an altitude of  $23-45 \times 10^6$  km. On the basis of measurements made by "Kosmos" satellites, the average atmospheric density in orbital altitudes of perigee 200-300 km was determined; density increased in the daytime. Fluxes of high energy fositive ions of several Kev were detected at a height of 200-1000 km, and their velocity was determined; in the F-layer region their intensity showed a maximum value of the order of

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· ACCESSION NR: AP3007551

 $10^9 \text{ cm}^{-2} \cdot \text{sec}^{-1}$ . At  $\pm 49^\circ$  latitudes and at altitudes in the range 200-1600 km, hitherto unknown corpuscular fluxes of highly variable intensity were discovered. Measurements by means of rockets launched from Franz-Josef Land and from ships in the Pacific Ocean provided much new data on temperature, density, and winds in the upper atmosphere. The continuous temperature inversion in polar zones of the stratosphere was found to be caused by corpuscular radiation; the characteristic diurnal and annual changes in temperature at heights up to 50 km were established to be functions of latitude. An ionospheric electric field of  $10^{-4}-10^{-3}$  v·cm<sup>-1</sup> was detected; the variation in the structure of the ionosphere at heights up to 500 km was investigated during the change from maximum to minimum solar activity. VRadar investigations of Mercury and Venus confirmed the value previously obtained for the astronomical unit; the reflection coefficient of Mercury was found to be similar to that of the lunar surface. It was determined that Venus has a reverse spin with a period of about 300 days, if its axis is assumed to be perpendicular to the plane of the ecliptic. Flat sectors several km in length and having a reflection coefficient greater than that of the lunar surface were

Cord 3/4

L 18493-63 ACCESSION NR: AP3007551

identified on the surface of Mars.

ASSOCIATION: none

SUBMITTED: 00 DATE ACQ: 150ct63 ENCL: 00

SUB CODE: AS NO REF SOV: 000 OTHER: 000

Card 4/4

BLAGONRAVOV, A.A. (Szovjetunio)

Most important scientific problems of technical development.
Technika 7 no.5:2 My 63.

l. Szovjetunio Tudomanyos Akademiaja Geptani Intezetenek i igazgatoja.

BLAGONRAVOV, An., akad.

Automation and the cosmos. Nauka i tekh mladezh. 15 no.6:9 Je 163.

CIA-RDP86-00513R000205420010-7

# BLAGONRAVOV, A. A., akademik

Principal scientific problems of technological progress. Vest. AN SSSR 33 no.1:3-10 Ja \*63. (MIRA 16:1)

(Research, Industrial)

# BLAGONRAVOV, A.A., akademik

Exploration of outer space and the upper atmospheric layers.

Vest. AN SSSR 33 no.9:9-16 S '63. (MIRA 16:9)

(Ionospheric research) (Outer space—Exploration)

BLAGONRAVOV, A.A., akademik

Session of the Committee for the Exploration of Outer Space, held in Warsaw. Vest. AN SSSR 33 no.10:70-72 0 '63.

(MIRA 16:11)

BLAGONRAVOV, A.A., akademik, red.; GRIGOR'YAN, A.T., doktor fizmat. nauk, red.; DUCHKIN, L.S., doktor tekhn. nauk, red.;
KOSMODEM'YANSKIY, A.A., doktor fiz-mat. nauk, red.;
KOZLOV, S.G., prof., red.[deceased]; SOKOLOVA, S.A., kandd.
tekhn. nauk, red.; SOKOL'SKIY, V.N., kand. tekhn.nauk, red;
FEDOROV, A.S., kand. tekhn. nauk, red.; CHEKANOV, A.A.,
kand. tekhn. nauk, red.; SHUKHARDIN, S.V., kand. tekhn. nauk,

[From the history of rocket engineering] Iz istorii raketnoi tekhni.i. Moskva, Nauka, 1964. 254 p. (MIRA 17:8)

1. Akademiya nauk SSSR. Institut istorii yestestvoznaniya i tekhniki.

SUPRUM, F.P.; SHIROKOV, K.V.; BLAGONRAVOV, A.A., akademik, red.; SMIRNOV, Ye.A., red.; BORISOV, V.V., red.; BERDNIKOVA, N.D., red.-leksikograf; KUZ'MIN, I.F., tekhn. red.

[English-Russian astronautics dictionary] Anglo-russkii slovar' po kosmonavtike. Moskva, Voenizdat, 1964. 304 p. (MIRA 17:2)

BLAGONRAVOV, A.A., akademik

Cooperation of the U.S.S.R. and the U.S.A. in space research. Vest. AN SSSR 34 no.10:82-84 0 164. (MIRA 17:11)

BLADON MINOR Antolij [Blagonravov, Anatoliy], akademik

For the benefit of man. Horyz techn 17 no. 9:15 S '64.

1. Chairman, Committee for Research and Utilization of Cosmic Space, Academy of Sciences U.S.S.R.

LEVITSKIY, N.I., doktor tekhn. nauk prof., otv. red.; BLAGONRAVOV,

A.A. akademik, red.; BESSONOV, A.P., doktor tekhn.

nauk, red.; DIMENTBERG, F.M., doktor tekhn. nauk, prof.,

red.; ZINOV'YEV, V.A., doktor tekhn. nauk, prof., red.;

KOBRINSKIY, A.Ye., doktor tekhn. nauk, red.;

CHERKUDINOV, S.A., doktor tekhn. nauk, red.

[Current problems in the theory of machines and mechanisms] Sovremennye problemy teorii mashin i mekhanizmov. Moskva, Nauka, 1965. 342 p. (MIRA 19:1)

1. Moscow. Gosudarstvennyy nauchno-issledovatel'skiy institut mashinovedeniya.

L 23357-66 FSS-2/EEC(k)-2/EVA(d) JKT/TT

ACC NR: AF6005854 SCURCE CODE: PO/0101/65/000/006/0030/0036

AUTHOR: Blagonravov, Anatol Arkadievicz (Academician); Kroszkin, M. (Candidate of Science)

ORG: none

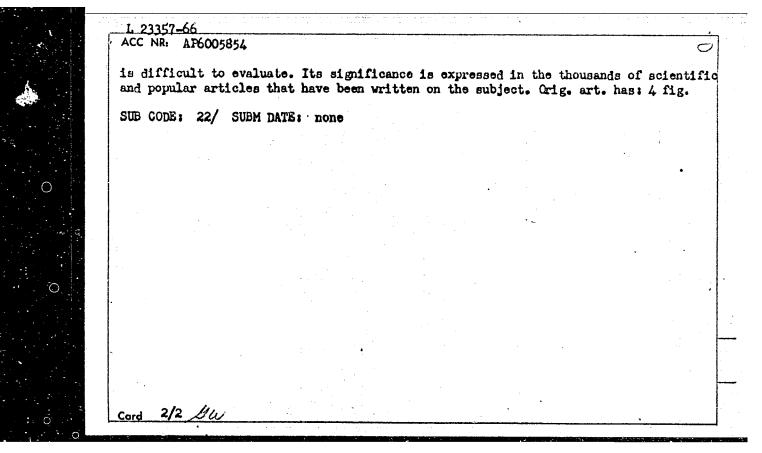
TITLE: Soviet cosmic studies

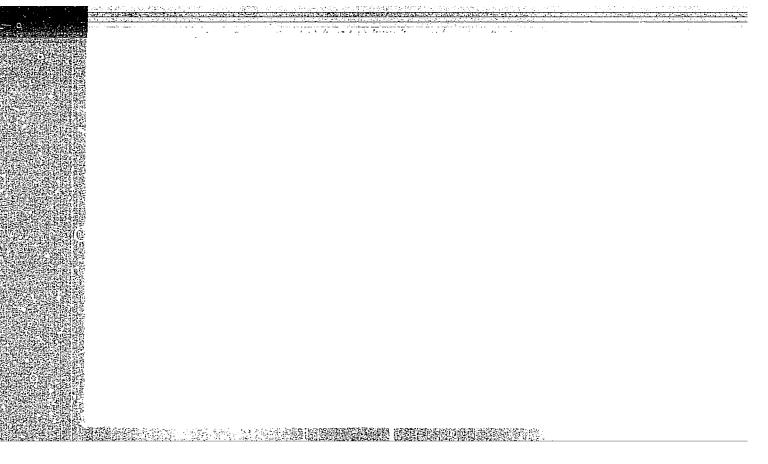
SCURCE: Warsaw. Instytut lotnictwa. Biuletyn informacyjny, no. 6, 1965, 30-36

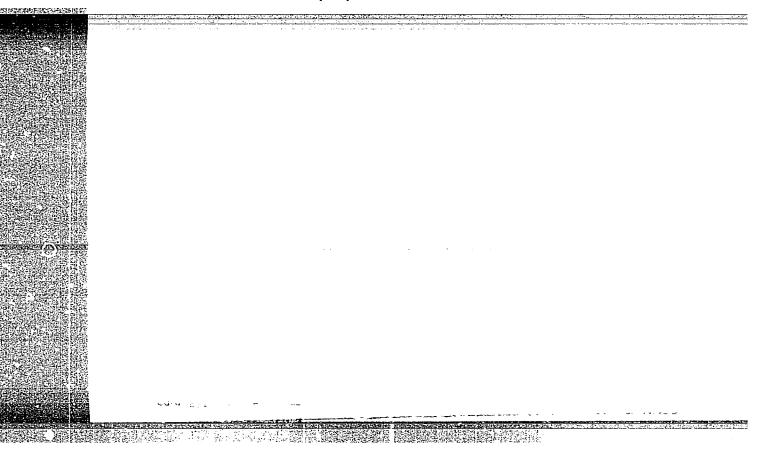
TOPIC TAGS: space environment, satellite

ALSTRACT: The article was written in Russian specially for the Biuletyn by A. A. blagonrawow, General of the Artillery, (President of the Academy of Artillery Sciences since 1946) and member of the Presidium of the Academy of Sciences of the SSSR and the International Astronautical Academy (IIA), and by Candidate of Technical Sciences M. Kroszkin, and translated into Polish. The article gives a review of the main achievements of Soviet science in understanding space since the beginning of space exploration during the International Geophysical Year. During the seven years which have passed since the first satellite was sent into orbit, a large amount of scientific information has been acquired about space conditions which has permitted sending man into space. Fifteen cosmonauts have already orbited around the earth. The significance of the information that has been obtained from space exploration

Card 1/2







### "APPROVED FOR RELEASE: 06/08/2000

#### CIA-RDP86-00513R000205420010-7

ACC NR: AN7003740

SOURCE CODE: UR/9004/67/000/025/0004/0004

AUTHOR: Blagonravov, A. (Academician; Chairman); Vereshchetin, V. (Candidate of

legal sciences)

ORG: none

TITLE: Space cooperation

SOURCE: Kazakhstanskaya pravda, no. 25, 29 Jan 67, p. 4, col. 1-4

TOPIC TAGS: space flight, space program

ABSTRACT:

This is an abridged version of an article by Academician Blagonravov and Candidate of Juridical Sciences V. Vereshchetin that will be published in full in the first issue of the journal "Zemlya i Vselennaya." In this article, the authors tell about the cooperation of various countries for space mastery. However, the development and selection of means for this purpose are still hindered by international tension.

SUB CODE: 22/ SUBM DATE: none/ ATD PRESS: 5113

Card 1/1

UDC: \_\_none

BLAGONRAVOV, B. P.

29809

Ulchshit, Rabotu shkol pchyelovodstva. Pchyelovodstvo, 1949, No. 9, S. 10-11

SO: LETOPIS' NO. 40

SUKHARCHUK, Yu.S.; BLAGONRAVOV, B.P.; RESHETNIKOV, G.K.

Interaction of technological parameters of melting in cupolas of various design. Lit. proisv. no.2:8-10 F '63. (MIRA 16:3) (Cupola furnaces-Design and construction) (Melting)

SUI HARCHUK, Yu.S.; BLAGDNRAVOV, B.F.; KRAKOVSKIY, Ye.B.; RESHETNIKOV, G.K.

Interrelation of melting parameters in high capacity cupolas.

Lit. proizv. no.1:15-17 Ja '65. (MIRA 18:3)

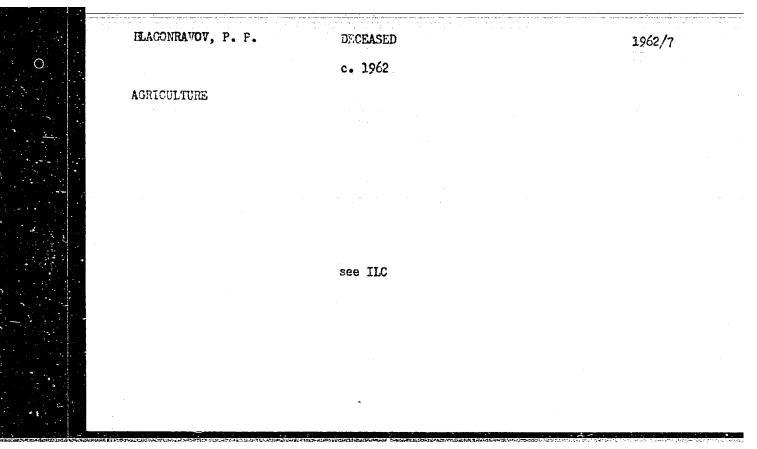
KLETSKIN, G.I., kand. tekhn. nauk; SUKHARCHUK, Yu.S., kand. tekhn. nauk;
BLAGONRAVOV, B.P., inzh.; SOBOL', N.L., inzh.; D'YAKONOV, V.Ye.,
inzh.; RABINOVICH, V.D., inzh.

Melting cast iron in a coke-oven gas-fired cupola. Lit.proizv. no.12:1-4 D '65. (MIRA 18:12)

# BLAGONRAVOV, N.S.

Some data on the hydrogeology of the Upper Maykop sediments of central and eastern cis-Caucasia. Izv. vys. ucheb. zav.; neft' i gaz 8 no.4: 17-20 '65. (MIRA 18:5)

1. Groznenskiy neftyanoy institut.



24817. ELAGONRAVOV, S. A. Ob Izmeneni Yakh Tipov Mineralogicheskikh AssoTsiyetsiy Oblomochnykh Porod Mezozoiskikh i Tretichykh Otoczhenii Vostochnoy ohasti g Sevarnogo Kavkaža, Trudy Grozn Neft. In-ta, Sb. 7, 1949, S 38-53.--Bibliog 15 Nazv SO: Letopis' No. 33, 1949

MATVEYEV, L.M., inshener: BLAGONRAVOV, S.I.

Reduce the cumbrousness of current accounting for milled peat. Torf.prom.34 no.1:13-15 '57. (MLRA 10:2)

1. Gor'kovskiy torfotrest (for Matveyev). 2. Pikinskoye torfopredpriyatiye (for Blagonravov). (Peat industry—Accounting)

KARAKIN, F.F.; RODICHEV, A.F.; PUTIY, G.P.; BASOV, A.P.; PYATAKOV, L.V.; RAUTSEP, A.P. [Rautsepp, A.]; BLAGONRAVOV, S.I.; GRECHIKHO, A.M.; DRUZHININ, N.N.; SHÜKHMAN, D.I.; BAUSIN, A.F.; LOYKO, P.G.; CHERNAKOV, B.A.; SHORNIKOV, F.M.; SOPIN, P.F.

Remarks of the members of the Conference. Torf. prom. 37 no.5: 22-28 '60. (MIRA 14:10)

1. Ivanovskiy gosudarstvennyy torfotrest (for Karakin). 2. Sverdlovskiy torfotrest (for Rodichev). 3. Gosplan USSR (for Putiy). 4. Leningradskiy gosudarstvennyy trest torfyanoy promyshlennosti (for Basov). 5. Moskovskiy oblastnoy sovnarkhoz (for Pyatakov). 6. Gosudarstvennyy nauchno-tekhnicheskiy komitet Estonskoy SSR (for Rautsep). 7. Gor'kovskiy sovnarkhoz (for Blagonravov). 8. Belorusskiy sovnarkhoz (for Grechikho, Shukhman). 9. Yaroslavskiy sovnarkhoz (for Druzhinin). 10. Bohruyskaya mashinno-meliorativnaya stantsiya (for Loyko). 11. Gipromestprom Gosplana RSFSR (for Chernakov). 12. Mezhkolkhoznoya torfopredpriyatiya "Volosovskoya" Leningradskoy oblasti (for Shornikov). 13. Vsesoyuznyy nauchno-issledovatel'skiy institut torfyanoy promyshlennosti (for Sopin). (teat industry)



BLAGONRAVOV, S.I.; BREK, B.M.; BYAKOV, P.T.; VIKTOROV, V.S.; VAGANOV, V.I.; GUSEV, S.A.; GLEBOV, V.V.; GURILEV, A.M.; DANILOV, G.D.; ZAV'YALOV, V.G.; IOFFE, Ye.F.; IZVEKOV, G.M.; KONGVALOV, S.A.; KULIGIN, A.S.; KASATKIN, A.P.; KUZNETSOV, N.I.; LEBEDEV, A.I.; LEMPERT, Ye.N.; MARGEVICH, Ya.I.; MAYZEL', M.A.; MITYAKOV, V.S.; NOSKOV, M.M.; RYABCHIKOV, M.Ya.; RATSMAN, N.I.; TVOROGOV, M.K.; UGOL'NIKOV, V.Ya.; KHAR'KOV, G.I.; CHADOV, S.L.

Lev Mil'evich Matveev; obituary. Torf. prom. 38 no.4:38 '61.
(MIRA 14:9)

(Matveev, Lev Mil'evich, 1914-1961)

15-1957-10-13904

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10,

pp 75-76 (USSR)

AUTHORS: Blagonravov, V. A., Shenkman Ya. D.

TITLE: Relations Among the Granitoidal Rocks in the Lower

Course of the Kaa-Khem River (Eastern Tuva)  $\sqrt{0}$  sootnoshenii mezhdu granitoidami nizhnego techeniya r. Kaa-

Khem (Vostochnaya Tuva)7

PERIODICAL: Tr. Vses. aerogeol. tresta, 1956, Nr 2, pp 88-93

ABSTRACT: In the region of the village of Znamenka, along the

lower course of the Kaa-Khem River (Malyy Yenisey), the oldest rocks are Lower Cambrian and intensely deformed. They are greenstone porphyrites, quartz-plagicclase porphyries, marmorized limestones and, in subordinate amounts, quartzites. Lower Devonian (?) effusive-tuffaceous beds lie unconformably on this sequence and are presumably by Middle Devonian clastic red beds. The

intrusive rocks of the region form two groups: 1)

Card 1/3 granodiorites, quartz diorites, diorites, gabbros, and

Relations Among the Granitoidal Rocks in the Lower Course of the Kaa-Khem River

pyroxenites; and 2) granites (pink), granite porphyries, and granodiorite porphyries. Granodiorites and quartz diorites are the most abundant of the first group; tonalite-type rocks are distinguished among the quartz diorites (high biotite and hornblende content). All the rocks in the first group are related by gradual transitions and show local alternations of one variety with another. The gabbronorites, which are typical hybrid rocks, form schlieren segregations in the diorites and gabbrodiorites, and commonly occur at contacts with limestones and effusives of basic and intermediate compositions. The group as a whole corresponds to the "Tannuol'skiy" complex of V. A. Kuznetsov and G. V. Pinus (Dokl. AN SSSR, vol 65, Nr 1, 1949) or the "Argolikskiy" complex of L. N. Leont'yav (Dokl. AN SSSR, vol 91, Nr 5, 1953); the author proposes the preservation of term "Tannuol'skiy." Pink granitoidal rocks with both abyssal and hypabyssal features form the second group; granites, granite porphyries, and granodiorite porphyries. The abyssal varieties generally occur in the central parts of the masses, the hypa-

Relations Among the Granitoidal Rocks in the Lower Course of the Kaa-

byssal about the peripheries. The author compares these rocks, in age relations and in composition, with the "Late Caledonian" complex of V. A. Kuznetsov and G. V. Pinus. In both, intrusions of different ages are characterized by the following features:

1) young granites form small bodies, commonly where Lower Devonian rocks occur; 2) the structural pattern of the masses, which the rocks of the first group share with their host rocks, is in contrast with the structureless masses of the rocks of the second group; 3) the many varieties in the first group, produced by assimilation and hybridization, also contrast with the relative-difference in the intensity of endogene and exogene changes; and the amount of CaO, Al<sub>2</sub>O<sub>3</sub>, Fe<sub>2</sub>O<sub>3</sub>, FeO, and MgO is low.

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BLAGONKAVOV, V.A., KUDRYAVTSEV, G.A.

"Absolute age of some igneous and metamorphic rocks in the central part of the Altai-Sayan area" by T.N. Ivanova and others. Reviewed by V.A. Blagonravov, G.A. Kudriavtsev. Sov.geol. 6 no.4:159-160 Ap 163.

(MIRA 16:4)

(Altai Mountains—Geology, Stratigraphic)

(Ivanova, T.N.)

BLAGONRAVOV, V.I., inshener; KIRICHOK, Yu.G., inshener.

Redesign of hoisting systems in mines of the Krivoy Rog Basin. Gor. shur. no.7:66-69 J1 157. (MERA 10:8)

1. Energolaboratoriya tresta Dzerzhinskruda. (Erivoy Rog--Mine hoisting)

Blaconravov, V.I.

507/127-59-3-6/22

14(5)

AUTHORS:

TITLE:

Malinovskiy, N.Ya, Chichivanov, R.P., Blagonravov, V.I., Kirichok, Yu. G. and Popovich, F.N., Engineers.

The Automatic Control of an Electrically Driven Hoist

with an Exciter-Regulator (Avtomaticheskoye uprav-leniye elektroprivodom pod"yema s vozbuditelem-

regulyatorom.)

PERIODICAL:

Gornyy zhurnal, 1959, Nr 3, pp 24-26 (USSR)

ABSTRACT:

Laboratoriya avtomatiki i telemekhaniki Leningradskogo gornogo instituta (Laboratory of Automation and Telemechanics of the Leningrad Mining Institute) developed a new automation system for skip hoisting in the Severnaya Mine of the Mine Management imeni Kirov. A normal direct current motor of PN-100 type is used as an exciter-regulator of the generator. T make the use of such motor possible, its parallel winding was divided in two parts. This winding, generally consists of two coils on each pole. The dividing consists in connecting coils with a larger

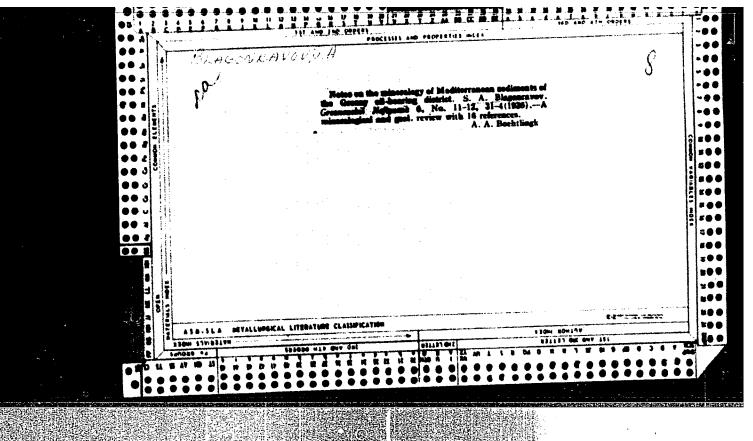
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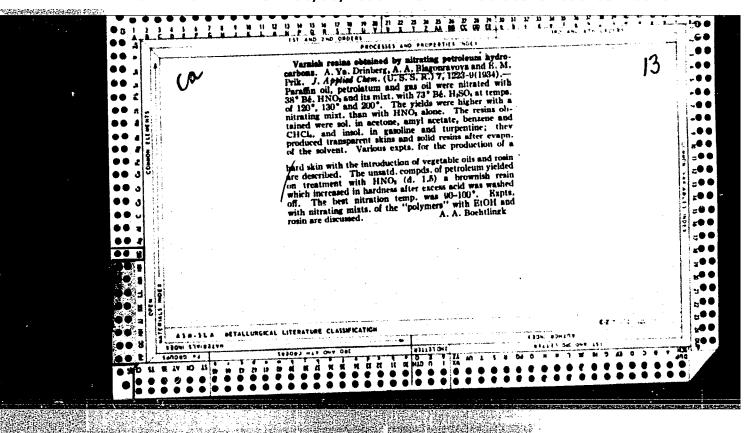
SERGEYEV, A.S., kand.tekhn.nauk; BLAGONRAVOV, V.I., dotsent; RITIN, A.M., gornyy inzh.-elektromekhanik (Moskva)

Discussion of "IA.B.Kal'nitakii and S.P.Vasil'evakii's article
"Problems in the automation of stoping equipment in the mining
industry." Gor.zhur. no.5:48-52 Ny '62. (MIRA 16:1)

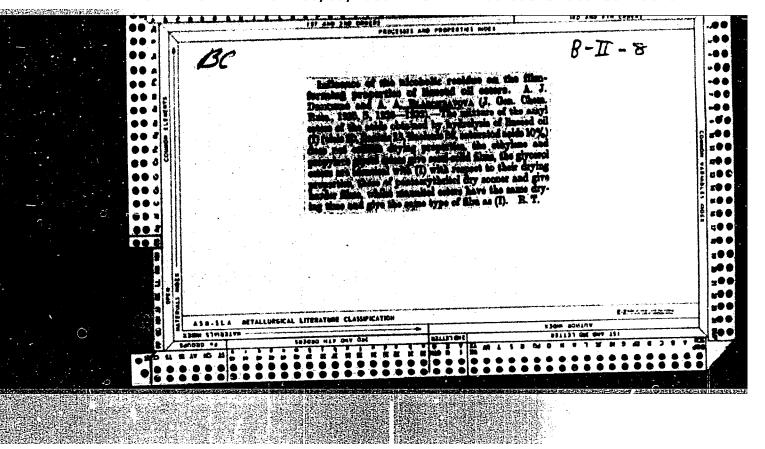
1. Krivoroshskiy gornorudnyy institut.
(Mining machinery) (Automation)
(Kal'nitskii, IA. B.) (Vasil'evskii, S. P.)

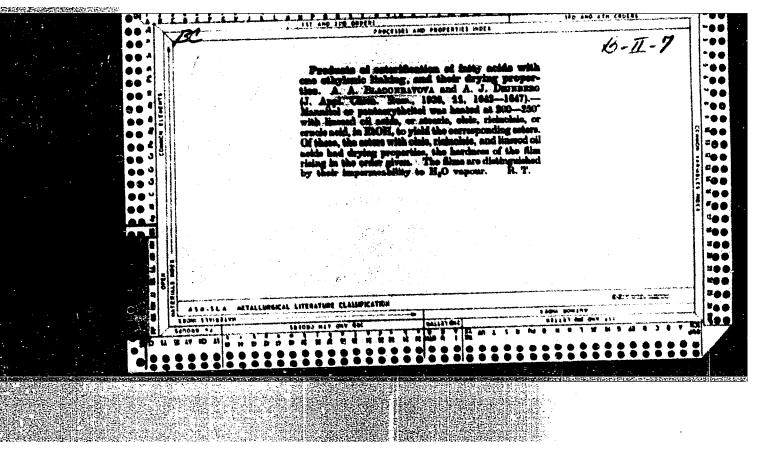
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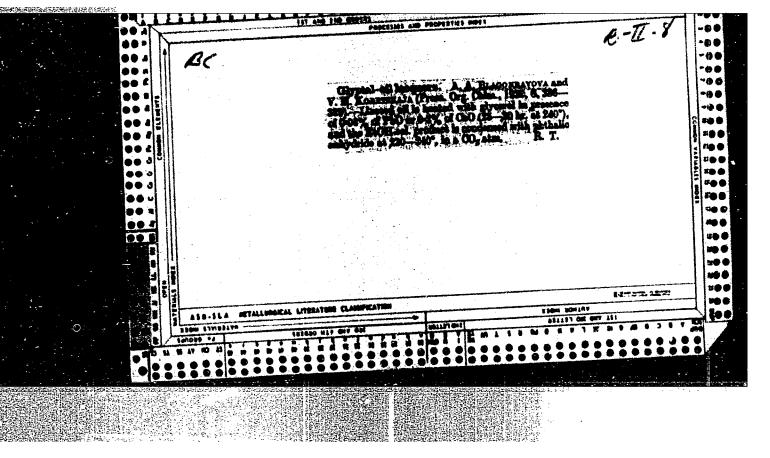




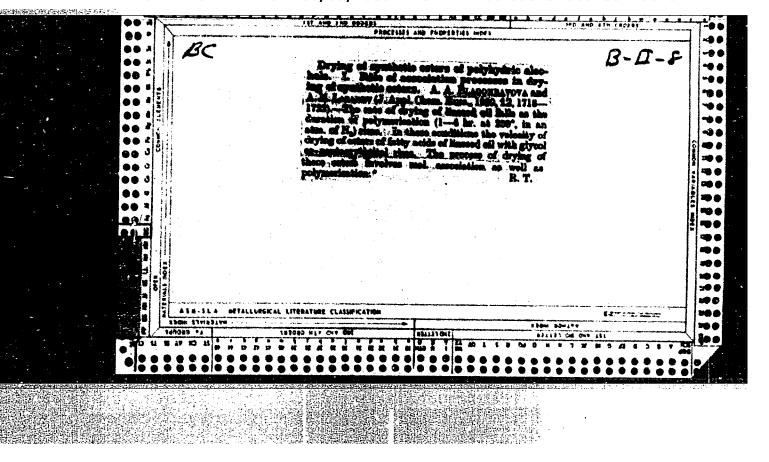
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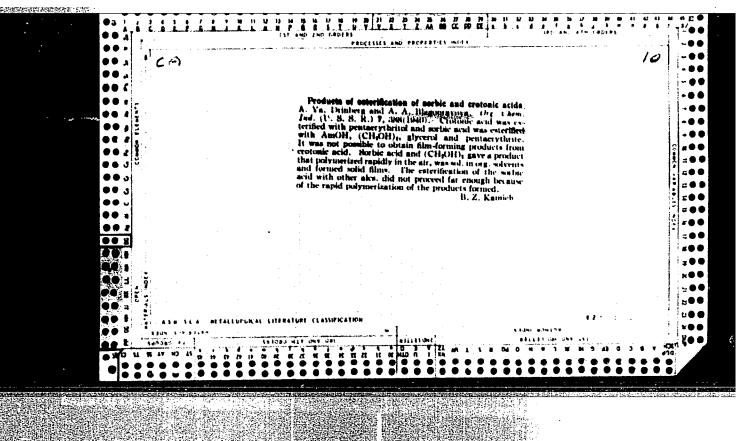


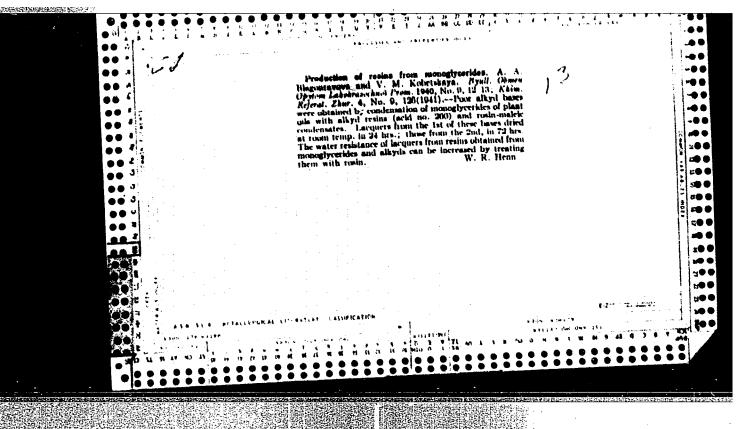


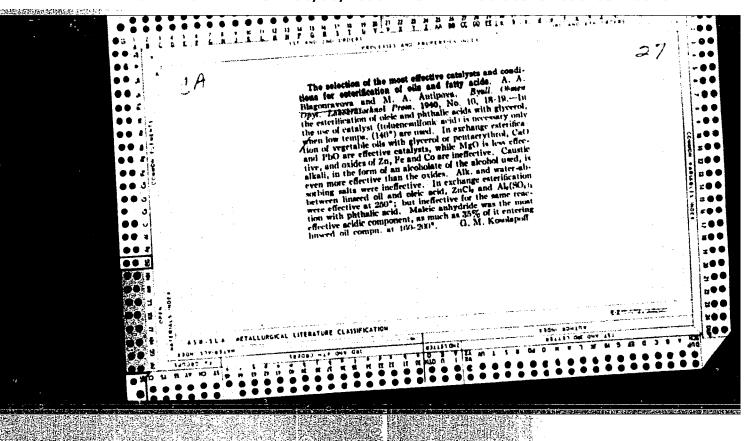


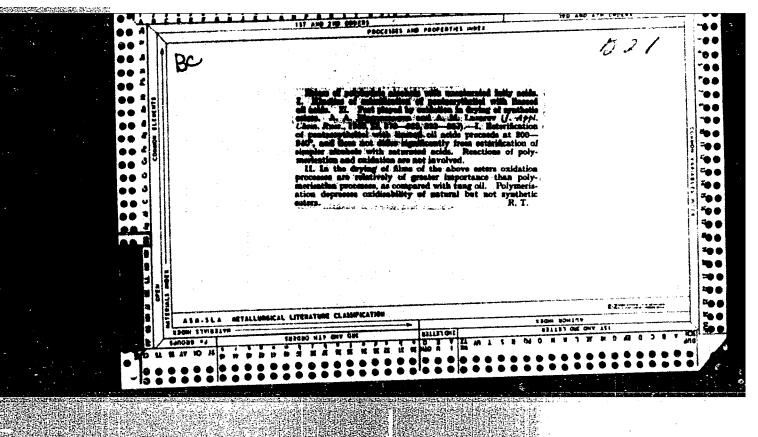
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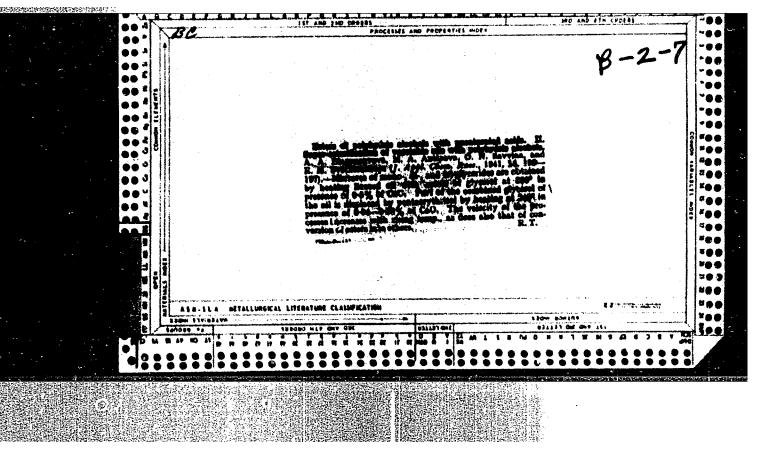


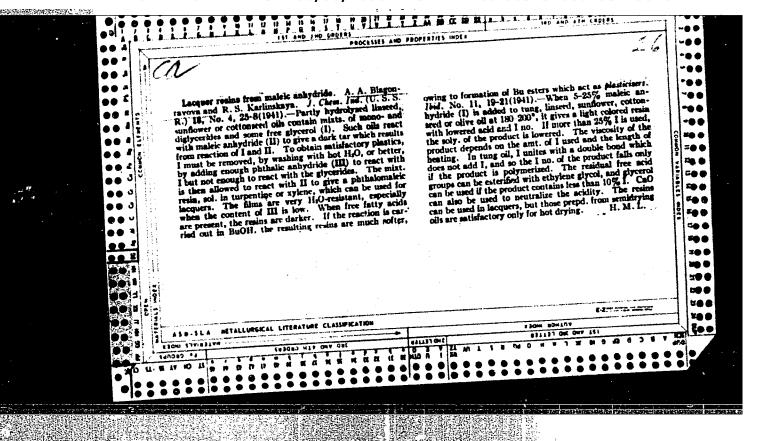












BLAGONRAVOVA, A. A.

and M. A. Antipoya. J. Chem. Ind. (U. S. S. R.) 18, No. 9, 16-17(1931).—Linesed and samflower oils undergo partial alcoholysis with pentagerythriftol when heated at 320° with an alk. catalyst. The product is then treated with pathalic anhydride at 240° until it contains 13-20% of the latter. This product is heated at 250-00° for 3-6 hrs. to complete polymerization. When dissolved in the ratio of 1:1 in the usual lacency solvents, these resins form good facquers. The one obtained from sunflower oil can be dried at high temps.

H. M. Leleesten

